

## Complete Summary

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### TITLE

Immunizations: percentage of adolescents who are up-to-date with recommended immunizations (Hep B, MMR, tetanus, and verification of varicella immunity).

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2005 Jun. 61 p. [58 references]

## Measure Domain

### PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure is used to assess the percentage of adolescents who are up-to-date with recommended immunizations (Hep B, MMR, tetanus, and verification of varicella immunity).

### RATIONALE

The priority aim addressed by this measure is to increase the rate of people up-to-date with recommended immunizations.

### PRIMARY CLINICAL COMPONENT

Immunization; Hepatitis B (Hep B); measles, mumps, rubella (MMR); tetanus and diphtheria toxoids (Td); varicella (VZV)

## DENOMINATOR DESCRIPTION

All adolescents age 12 to 17 with continuous enrollment who presented for a primary care visit in the specified quarter

## NUMERATOR DESCRIPTION

Number of adolescents in denominator who are up-to-date with recommended immunizations (see the related "Numerator Inclusions/Exclusions" field the Complete Summary)

### Evidence Supporting the Measure

#### EVIDENCE SUPPORTING THE CRITERION OF QUALITY

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

#### NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Immunizations.](#)

### Evidence Supporting Need for the Measure

#### NEED FOR THE MEASURE

Unspecified

### State of Use of the Measure

#### STATE OF USE

Current routine use

#### CURRENT USE

Internal quality improvement

### Application of Measure in its Current Use

#### CARE SETTING

Physician Group Practices/Clinics

#### PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

## LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

## TARGET POPULATION AGE

Age 12 to 17 years

## TARGET POPULATION GENDER

Either male or female

## STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

### Characteristics of the Primary Clinical Component

## INCIDENCE/PREVALENCE

Unspecified

## ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

## BURDEN OF ILLNESS

Unspecified

## UTILIZATION

Unspecified

## COSTS

Unspecified

### Institute of Medicine National Healthcare Quality Report Categories

## IOM CARE NEED

Staying Healthy

## IOM DOMAIN

Effectiveness

## CASE FINDING

Users of care only

## DESCRIPTION OF CASE FINDING

Adolescents ages 12 to 17

This measure should be collected through:

- Identifying eligible adolescents who presented in the target quarter for a primary care visit who have maintained continuous enrollment for 18 months.
- Reviewing the record to determine if all recommended doses were given within the recommended time frames.

The suggested time period for data collection is quarterly.

## DENOMINATOR SAMPLING FRAME

Patients associated with provider

## DENOMINATOR INCLUSIONS/EXCLUSIONS

### Inclusions

All adolescents age 12 to 17 with continuous enrollment who presented for a primary care visit in the specified quarter

### Exclusions

Unspecified

## DENOMINATOR (INDEX) EVENT

Encounter

Patient Characteristic

## DENOMINATOR TIME WINDOW

Time window is a single point in time

## NUMERATOR INCLUSIONS/EXCLUSIONS

### Inclusions

Number of adolescents in denominator who are up-to-date with recommended immunizations\*

\*An adolescent is up-to-date with recommended immunizations if:

- Hep B:

- 3 doses (all given within 18 months of the first Hep B dose)

or

- 2 doses Recombivax® HB given 4 to 6 months apart (see "Notes" below)
- MMR: 2 doses (first dose greater than or equal to 1 yr old; second dose 4 to 6 years)
- Td: 3 or 4 doses (second dose 4 weeks after first; third dose 6 months after second dose; booster every 10 years)
- VZV: 1 dose or documented history of varicella

Notes: Adolescents (age 11 to 15 years) can be immunized with Recombivax® HB per an alternative 2-dose schedule of 10 micrograms intramuscularly (IM) given 4 to 6 months apart. Be aware, however, that the introduction of this alternate dosing schedule does increase operational complexity for immunization administration in a clinic serving multiple ages of children and will therefore increase resultant risk of error.

Exclusions  
Unspecified

#### NUMERATOR TIME WINDOW

Fixed time period

#### DATA SOURCE

Administrative data  
Medical record

#### LEVEL OF DETERMINATION OF QUALITY

Individual Case

#### PRE-EXISTING INSTRUMENT USED

Unspecified

### Computation of the Measure

#### SCORING

Rate

#### INTERPRETATION OF SCORE

Better quality is associated with a higher score

#### ALLOWANCE FOR PATIENT FACTORS

Unspecified

#### STANDARD OF COMPARISON

Internal time comparison

## Evaluation of Measure Properties

### EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

### ORIGINAL TITLE

Percentage of adolescents who are up-to-date with recommended immunizations (Hep B, MMR, tetanus, and verification of varicella immunity).

### MEASURE COLLECTION

[Immunizations Measures](#)

### DEVELOPER

Institute for Clinical Systems Improvement

### ADAPTATION

Measure was not adapted from another source.

### RELEASE DATE

2003 Jul

### REVISION DATE

2005 Jun

### MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 56 p.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2005 Jun. 61 p. [58 references]

## MEASURE AVAILABILITY

The individual measure, "Percentage of adolescents who are up-to-date with recommended immunizations (Hep B, MMR, tetanus, and verification of varicella immunity)," is published in "Health Care Guideline: Immunizations." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: [www.icsi.org](http://www.icsi.org); e-mail: [icsi.info@icsi.org](mailto:icsi.info@icsi.org).

## NQMC STATUS

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